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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,972	12/20/2005	Torsten Pechstein	PECH3003/FJD	1719
23364 BACON & THO	7590 08/22/200 OMAS, PLLC	EXAMINER		
625 SLATERS	LANE	DOLE, TIMOTHY J		
FOURTH FLO ALEXANDRIA	or a, VA 22314-1176		ART UNIT	PAPER NUMBER
			2831	
			MAIL DATE	DELIVERY MODE
			08/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	on No.	Applicant(s)				
		10/534,97	72	PECHSTEIN ET AL.				
		Examiner		Art Unit				
		TIMOTHY	J. DOLE	2831				
Period fo	The MAILING DATE of this communication or Pr Reply	appears on the	e cover sheet with the c	orrespondence a	ddress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REICHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by state that the reply received by the Office later than three months after the material part of the provided patent term adjustment. See 37 CFR 1.704(b).	DATE OF THE 1.136(a). In no evolution will apply and watute, cause the app	HIS COMMUNICATION ent, however, may a reply be timil expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this of U.S.C. § 133).	·			
Status								
1) 又	Responsive to communication(s) filed on 3(0 April 2008						
•	Responsive to communication(s) filed on <u>30 April 2008</u> . This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4\⊠	Claim(s) 14-26 is/are pending in the applica	ition						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	□ Claim(s) is/are allowed.							
	5)☑ Claim(s)is/are allowed. 6)☑ Claim(s) <u>14-18 and 21-23</u> is/are rejected.							
	Claim(s) <u>19,20 and 24-26</u> is/are objected to							
	Claim(s) are subject to restriction and		equirement.					
	on Papers							
	•							
•	The specification is objected to by the Exam							
10)[2]	10)⊠ The drawing(s) filed on <u>16 May 2005</u> is/are∶ a)⊡ accepted or b)⊠ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice (3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Drawings

1. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 16 is objected to because of the following informalities: the comma before the period at the end of claim 16 should be removed. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 14-18 and 21-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Beijk et al. (US 4,777,444).

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Referring to claim 14, Beijk et al. discloses in a measuring point including a reference half cell (3) and a measuring half cell (4), a method for monitoring the reference half cell for determining and monitoring an ion concentration of a medium (column 3, line 65 - column 4, line 23 and column 4, line 67 - column 5, line 30), the ion concentration of the medium being determined on the basis of at least one measurement signal determined between the measuring half cell and the reference half cell (column 4, lines 18-20), the method comprising the steps of: intermittently operating the measuring point in an operating mode and in a test mode (column 3, line 65 - column 4, line 23 and column 4, line 67 - column 5, line 30); measuring the ion concentration in the operating mode (column 3, line 65 - column 4, line 23); and checking the proper functioning of the reference half cell in the test mode (column 4, line 67 - column 5, line 30).

Referring to claim 15, Beijk et al. discloses the method as claimed, further comprising the step of: determining the noise component of the measurement signal in the test mode and in the operating mode (column 3, line 65 - column 4, line 23 and column 4, line 67 - column 5, line 30).

Referring to claim 16, Beijk et al. discloses the method as claimed, further comprising the steps of: activating (using switches 20 and 24) an impedance (21) in the test mode in a measuring circuit for determining the noise component; and changing the impedance (21) in the operating mode.

Referring to claim 17, Beijk et al. discloses the method as claimed wherein: an impedance-changing element (switch 20) is activated for the purpose of changing the impedance (21).

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Referring to claim 18, Beijk et al. discloses the method as claimed wherein: a switch (24) is actuated as the impedance-changing-element, which is connected in parallel with the impedance (21) for the purpose of changing the impedance.

Referring to claim 21, Beijk et al. discloses in a measuring point including a reference half cell (3) and a measuring half cell (4), an apparatus for determining and an ion concentration of a medium (column 3, line 65 - column 4, line 23 and column 4, line 67 - column 5, line 30), the apparatus comprising: said measuring point (figure); a measuring circuit located between the measuring half cell (4) and the reference half cell (3); and a control and evaluation unit, which determines the ion concentration of the medium on the basis of a measurement signal determined in said measuring circuit (column 4, lines 18-20), wherein: said control and evaluation unit operates the measuring point intermittently in an operating mode (column 3, line 65 - column 4, line 23) and in a test mode (column 4, line 66 - column 5, line 30); and said control and evaluation unit determines the ion concentration of the medium in the operating mode and checks the proper functioning of the reference half cell (3) in the test mode (column 3, line 65 - column 4, line 23 and column 4, line 67 - column 5, line 30).

Referring to claim 22, Beijk et al. discloses the apparatus as claimed wherein: in said measuring circuit, an impedance (21 or 11) is provided, which is changed, preferably short-circuited, in the operating mode and is added into said measuring circuit in the test mode.

Referring to claim 23, Beijk et al. discloses the apparatus as claimed, further comprising: an impedance changing element (24 or 10), which is connected in parallel

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with the impedance (21 or 11); and said impedance changing element (24 or 10) is actuated by said control and evaluation unit.

Allowable Subject Matter

5. Claims 19, 20 and 24-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

- 6. Applicant's arguments filed April 30, 2008 have been fully considered but they are not persuasive.
- 7. In response to Applicant's arguments with respect to claims 14 and 21, that Beijk et al. does not teach or suggest operating a measuring point with a reference half cell and a measuring half cell intermittently operating in an operating mode and a test mode, the examiner respectfully disagrees. Applicants argue that Beijk et al. does not teach this limitation since Beijk et al. includes an additional electrode (5), which is intermittently connected. It should be noted that the claims simply recite a measuring point "including" a reference half cell and a measuring half cell. The term "including" is open-ended and does not exclude additional unrecited elements or method steps (MPEP 2111.03). Therefore, Beijk et al. may include an additional electrode, and does disclose every limitation of claims 14 and 21, as shown in the rejection, above.

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8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY J. DOLE whose telephone number is (571)272-2229. The examiner can normally be reached on Mon. thru Fri. from 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Timothy J. Dole/ Primary Examiner, Art Unit 2831